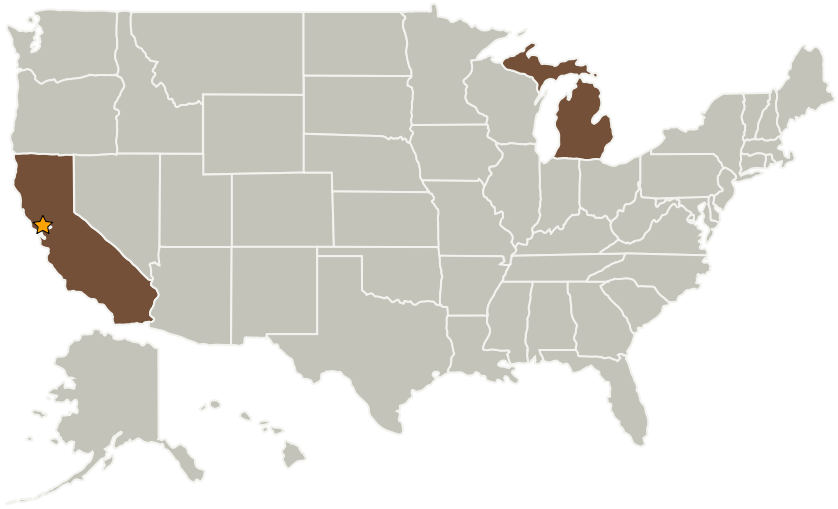
An ADS-B Emergency Respone System for NextGen Airspace Safety, Phase I

Completed Technology Project (2009 - 2009)

Project Introduction

FAA NextGencontrollers can employ the ADS-B datalink to send aircraft flight plans guiding the around traffic conflicts that the on-board system hasn't seen or hasn't resolved quickly by ATC standards. The emergency function that has 2 features; 1, if the on-board system detects an anomaly it will initiate a priority message and datastream to report a potential safety problem to NextGen ATC controllers; 2 in event of rapid airspace congestion issues ATC can use such a priority datalink to re-route the aircraft. This emergency route to the nearest suitable airport will avoid traffic, restricted airspace, weather and terrain.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Ames Research Center(ARC)	Lead Organization	NASA Center	Moffett Field, California
Munro and Associates	Supporting Organization	Industry	Troy, Michigan

Primary U.S. Work Locations	
California	Michigan

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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Ames Research Center (ARC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Technology Areas

Primary:

- TX16 Air Traffic Management and Range Tracking Systems
  - TX16.3 Traffic Management Concepts